**EAST Search History**

**EAST Search History (Prior Art)**

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|---|---|---|---|---|---|---|
| L1 | 695 | $7ortho$2ester$3 and (acid-releas$3 ((degrad$6 bio $1degrad$5 generat$6 in-situ produce producing production releas$4) adj acid)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 19:13 |
| L2 | 560 | L1 not Halliburton | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 19:13 |
| L3 | 122 | L2 not (light photolysis photodecomposition) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 19:13 |
| L4 | 99 | poly$2ortho$2ester$3 near20 (degrad$6 bio$1degrad$6) near9 hydroly$6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 19:31 |
| L5 | 203 | poly$2ortho$2ester$3 near20 hydroly$6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 19:33 |
| L6 | 10693 | ((polymer$4 near ortho $1ester) poly$2ortho$2ester $3) near20 (hydroly$6 bio $1degrad$7 degrad$6 bio $1erod$5 erosion erod$1ble) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 20:10 |
| L7 | 8703 | 6 near20 poly$1lact$6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 20:12 |

| L8 | 115 | ((polymer$4 near ortho $1ester) poly$2ortho$2ester $3) near20 (hydrolyz$6 hydrolysis hydrolytically) near20 (bio$1degrad$7 degrad $6 bio$1erod$5 erosion erod $1ble) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 20:13 |
|----|-----|---|---|---|---|---|
| L9 | 38 | 8 near20 poly$1lact$6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 20:13 |
| L10 | 37 | 8 near20 poly$1lacti$6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 20:17 |
| L11 | 10683 | ((polymer$4 near ortho $1ester) poly$2ortho$2ester $3) near20 (hydrolyz$6 hydrolysis hydrolytically bio $1degrad$7 degrad$6 bio $1erod$5 erosion erod$1ble) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 20:19 |
| L12 | 10240 | 6 and (subterranean well (filter near cake) fracturing proppant propping) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 20:21 |
| L13 | 592 | 6 and (subterranean well $1bore (filter near cake) fracturing proppant propping) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 20:21 |
| L14 | 577 | 13 not Halliburton | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 20:21 |
| L15 | 558 | 14 and poly$1lacti$6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 20:22 |

| L16 | 525 | 6 and (subterranean well $1bore (filter near cake) proppant propping) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 20:24 |
| L17 | 502 | 15 and (subterranean well $1bore (filter near cake) proppant propping) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 20:25 |
| L18 | 8 | 15 and (subterranean well $1bore proppant propping) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 20:25 |
| S1 | 9317 | $5ortho$2ester | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 16:41 |
| S2 | 559 | S1 near3 polyester | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 16:41 |
| S3 | 339 | S1 near polyester | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 16:41 |
| S4 | 545 | S1 near (formula structure) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 16:43 |
| S5 | 2 | "20050034861" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 16:46 |
| S6 | 3320 | poly$2ortho$2ester | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 16:47 |

| S7 | 35 | S6 near (formula structure) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 16:47 |
| S8 | 0 | (hydrolysis hydrolyz$3) near3 poly$2ortho$2ester near9 (releas$3 generat$4) near3 acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 16:50 |
| S9 | 28 | (hydrolysis hydrolyz$3) near3 poly$2ortho$2ester | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 16:50 |
| S10 | 16 | (hydrolysis hydrolyz$3) near20 poly$2ortho$2ester near20 (releas$3 generat$4) near3 acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 16:51 |
| S11 | 28 | (hydrolysis hydrolyz$3) near3 poly$2ortho$2ester | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 16:55 |
| S12 | 34 | (hydrolysis hydrolyz$3) near13 poly$2ortho$2ester near9 acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 16:57 |
| S13 | 8 | poly$2ortho$2ester near9 (releas$4 produc$5 generat $5) near acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:00 |
| S14 | 9 | (Halliburton near Energy near Services).as. and poly$2ortho $2ester | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:04 |
| S15 | 67 | poly$2ortho$2ester near9 (degrad$6 bioerod$5) near acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:06 |

| S16 | 77 | poly$2ortho$2ester near9 (degrad$6 bioerod$5) near9 acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:06 |
|-----|-----|-----|-----|-----|-----|-----|
| S17 | 1 | S16 not ($5lactic $5glycolic) adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:08 |
| S18 | 2 | poly$2ortho$2ester same (releas$4 produc$5 generat $5) adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:08 |
| S19 | 117 | $8ortho$2ester same (releas $4 produc$5 generat$5) adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:11 |
| S20 | 2714 | poly$2ortho$2ester same acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:11 |
| S21 | 360 | S20 not ($5lactic $5glycolic) adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:11 |
| S22 | 465 | $8ortho$2ester and (releas$4 produc$5 generat$5) adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:13 |
| S23 | 81 | S19 not photolysis | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:17 |
| S24 | 1545 | poly$2ortho$2ester same (erosion degrad$5 biodegrad $7) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:18 |

| S25 | 2 | poly$2ortho$2ester same (hydrolysis hydrolyz$3 hydrat $3 erosion degrad$5 biodegrad $7) same (releas$4 produc$5 generat$5) adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:21 |
|---|---|---|---|---|---|---|
| S26 | 2 | poly$2ortho$2ester same (releas$4 produc$5 generat $5) adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:24 |
| S27 | 0 | poly$2ortho$2ester adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:25 |
| S28 | 2386 | poly$2ortho$2ester near20 acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:25 |
| S29 | 254 | S28 not ($5lactic $5glycolic) adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:26 |
| S30 | 189 | poly$2ortho$2ester near2 (hydrolysis hydrolyz$3 hydrat $3 erosion degrad$5 biodegrad $7) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 17:27 |
| S31 | 7148 | poly$2ester near2 (hydrolysis hydrolyz$5 hydrat$3 erosion degrad$5 biodegrad$7) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:32 |
| S32 | 18864 | poly$2ester near20 (hydrolysis hydrolyz$5 hydrat$3 erosion degrad$5 biodegrad$7) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:33 |
| S33 | 36 | S32 same (releas$4 produc$5 generat$5) adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:33 |

| S34 | 436 | (poly$1ester ester) near20 (hydrolysis hydrolyz$5) near20 (releas$4 produc$5 generat $5) adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:37 |
|-----|-----|------|------|------|------|------|
| S35 | 8 | S34 same (erosion degrad$5 biodegrad$7) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:38 |
| S36 | 8 | S34 same (erosion degrad$5 bio$1degrad$7) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:38 |
| S37 | 2 | S34 same (erosion bio$1erod $5 degrrad$5 bio$1degrad$7) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:39 |
| S38 | 8 | S34 same (erosion bio$1erod $5 degrad$5 bio$1degrad$7) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:39 |
| S39 | 323 | (poly$1ester ester) near3 (hydrolysis hydrolyz$5) near20 (releas$4 produc$5 generat $5) adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:41 |
| S40 | 3 | polymer$3 near3 alpha $1hydroxy$1carboxylic near acid near9 (hydrolysis hydrolyz $3) near9 acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:46 |
| S41 | 0 | polymer$3 near3 alpha $1hydroxy$1carboxylic near acid near9 (polyester ester poly$1ortho$1ester) near20 (hydrolysis hydrolyz$3) near9 acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:49 |
| S42 | 2 | polymer$3 near3 alpha $1hydroxy$1carboxylic near acid same (polyester ester poly $1ortho$1ester) near20 (hydrolysis hydrolyz$3) near9 acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:49 |

| S43 | 47 | "6817414" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:50 |
|---|---|---|---|---|---|---|
| S44 | 21 | "6817414" and releas$4 near3 acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 18:51 |
| S46 | 188 | "6488091" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 19:08 |
| S47 | 5 | ("496166" "4809783").pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 19:31 |
| S48 | 145 | "4829100" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 19:37 |
| S49 | 41 | ((RAJESH) near2 (SAINI)). INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/03/01 19:40 |
| S50 | 169 | ((BRADLEY) near2 (TODD)). INV. | US-PGPUB; USPAT; USOCR | OR | ON | 2010/03/01 19:41 |
| S51 | 197 | S49 S50 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 19:41 |
| S52 | 118 | S51 and (gravel particulate particle proppant).clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 19:42 |
| S53 | 28 | S51 and ((gravel particulate particle proppant) and acid near9 (releas$4 hydrol$7)). clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 19:43 |

| S54 | 4 | S51 and ((gravel particulate particle proppant) and acid and on-the-fly).clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 19:45 |
|-----|---|------|------|------|------|------|
| S55 | 1 | S51 and ((gravel particulate particle proppant) and degrad $5 near3 (filter near cake) and on-the-fly).clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 19:48 |
| S56 | 18 | S51 and ((gravel particulate particle proppant) and degrad $5 near3 (filter near cake)). clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 19:49 |
| S57 | 6 | S51 and ((gravel particulate particle proppant) and hydroly $7 and degrad$5 near3 (filter near cake)).clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 19:50 |
| S58 | 9 | S51 and ((gravel particulate particle proppant) and ((acid near releas$5) acid-releas$5) and degrad$5 near3 (filter near cake)).clm. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 19:51 |
| S59 | 4 | ("6209643" "6817414").pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/01 20:23 |
| S60 | 47 | "6817414" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 11:08 |
| S61 | 2 | "9425079" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 15:37 |
| S62 | 11 | "6689608" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 16:43 |

| S63 | 116 | poly$2ortho$2ester$3 near20 hydroly$6 near9 acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 16:47 |
|---|---|---|---|---|---|---|
| S64 | 2 | poly$2ortho$2ester$3 near20 hydroly$6 near9 (generat$6 in-situ produce producing production releas$4) adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:32 |
| S65 | 15 | poly$2ortho$2ester$3 same (generat$6 in-situ produce producing production releas $4) adj acid | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:33 |
| S66 | 15 | poly$2ortho$2ester$3 same (acid-reles$3 ((generat$6 in-situ produce producing production releas$4) adj acid)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:35 |
| S67 | 139 | $7ortho$2ester$3 same (acid-reles$3 ((generat$6 in-situ produce producing production releas$4) adj acid)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:36 |
| S68 | 146 | $7ortho$2ester$3 same (acid-releas$3 ((generat$6 in-situ produce producing production releas$4) adj acid)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:36 |
| S69 | 654 | $7ortho$2ester$3 and (acid-releas$3 ((generat$6 in-situ produce producing production releas$4) adj acid)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:40 |
| S70 | 654 | S69 not (Halliburton near Energy near Serveces).as. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:41 |
| S71 | 146 | $7ortho$2ester$3 same (acid-releas$3 ((generat$6 in-situ produce producing production releas$4) adj acid)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:44 |

| S72 | 110 | S71 not photolysis | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:46 |
|-----|-----|--------------------|------|----|----|------|
| S73 | 64 | S71 not (light photolysis photodecomposition) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:50 |
| S74 | 64 | S73 not (Halliburton near Energy near Serveces) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:52 |
| S75 | 6 | S73 not Halliburton | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:52 |
| S76 | 537 | S69 not Halliburton | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:53 |
| S77 | 117 | S76 not (light photolysis photodecomposition) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 17:53 |
| S78 | 695 | $7ortho$2ester$3 and (acid-releas$3 ((degrad$6 bio $1degrad$5 generat$6 in-situ produce producing production releas$4) adj acid)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 18:00 |
| S79 | 560 | S78 not Halliburton | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 18:01 |
| S80 | 122 | S79 not (light photolysis photodecomposition) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2010/03/02 18:01 |

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